Index of Claims

| Appli | cation | Control ( | No. |
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10/657,253

Examiner

Tony G. Soohoo

Date

Applicant(s)/Patent under Reexamination

MURAKAMI ET AL.

Art Unit

1723

| 1 | Rejected |
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|   | Allowed  |

| _ | (Through numeral)<br>Cancelled |
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| + | Restricted                     |

Claim

| Z | Non-Elected  |
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| ı | Interference |

| A | Appeal   |
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| Cla      | aim  | Date     |          |  |          |              |              |          |          |          |
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|          |  | Г        |          |  |          | Ė            | Γ            | Γ        | Γ        | П        |
| Final    | Original   | 8/19/03  |          |  |          |              |              |          |          |          |
|          | 1<br>2<br>3<br>4<br>5<br>6<br>7                                      | v        |          |  |          |              |              |          |          |          |
|          | 2  | v        |          |  |          |              |              |          |          |          |
|          | 3  | V        | <u> </u> |  |          | <u> </u>     |              |          |          | Ш        |
|          | 4  | V        | _        | L  |          | L_           |              |          |          | Ш        |
| L        | 5  | ٧        |          |  | 匚        | <u> </u>     |              |          | L        |          |
|          | 6  | ٧        |          |  |          | <u> </u>     |              | L        | L        |          |
|          |  |          | L        | L  | L        | L            | 匚            |          | Ľ.       | Щ        |
|          | 8 9  | _        | L        | L  |          |              |              |          |          |          |
|          | 9  |          |          |  | L        | <u> </u>     | _            |          | <u> </u> | Ш        |
|          | 10   | _        |          | <u> </u>   | ļ        | _            | _            | ļ        | <u> </u> | Щ        |
|          | 11   |          | _        |  | L        | <u> </u>     | _            | <u> </u> | <u> </u> | Щ        |
|          | 12   | ᆫ        | L        | <u> </u>   | L_       | _            | _            | L        |          | Щ        |
|          | 13   | <u> </u> | <u> </u> | <u> </u>   | _        | <u> </u>     | <u> </u>     | <u> </u> | _        | Ш        |
|          | 10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21 | <u> </u> | <u> </u> | <u> </u>   | <u> </u> | <u> </u>     | _            | <u> </u> | <u> </u> | Ш        |
| <u> </u> | 15   | ⊢        | <u> </u> | <u> </u>   | ┞-       | <u> </u>     | _            | _        | <u> </u> | Ш        |
|          | 16   | <u> </u> | <u> </u> | <u> </u>   |          | _            | <u> </u>     | <u> </u> |          |          |
|          | 1/   |          | _        | <u> </u>   | <u> </u> | _            | <u> </u>     | <u> </u> | ļ        | Ш        |
|          | 18   | <u> </u> | <u> </u> | <u> </u>   | <u> </u> | <u> </u>     | <u> </u>     | <u> </u> | _        | Н        |
|          | 19   | ┡        | <u> </u> | <u> </u>   | <u> </u> | ┡            | <u> </u>     | <u> </u> | _        | Ш        |
|          | 20   | <u> </u> | <u> </u> | _  | <u> </u> |              | <u> </u>     | _        | _        | Н        |
|          | 21   | <u> </u> | <u> </u> | L  | <u> </u> | _            | _            | <u> </u> | _        | Н        |
|          | 22<br>23   | _        | <u> </u> | <u> </u>   |          | -            | <u> </u>     |          | _        | Н        |
|          | 23   | <u> </u> | <u> </u> | <del> </del>                                     | <u> </u> | ┞            | L            | -        | -        | Н        |
|          | 24<br>25<br>26   | _        | _        |  | -        | ├            |              | ┡        | ┝        | Н        |
|          | 20   | -        |          |  | -        | $\vdash$     | _            | -        | -        | Н        |
|          | 27   | $\vdash$ |          |  | -        | _            | -            | -        | ┝        | Н        |
|          | 28   | $\vdash$ |          |  | -        |              | <del> </del> | $\vdash$ | -        | Н        |
|          | 27<br>28<br>29   |          |          | $\vdash$   | -        | _            | -            | ┝        | ┢        | Н        |
| -        | 30   | $\vdash$ |          |  |          | $\vdash$     |              | $\vdash$ | ⊢        | Н        |
|          | 30<br>31   |          |          | -  | -        | <del> </del> | ┢            | ┢        | -        | $\vdash$ |
|          | 32   |          |          | _  | $\vdash$ | $\vdash$     | $\vdash$     | $\vdash$ | -        | $\vdash$ |
|          | 33   | $\vdash$ |          | $\vdash$   | H        | T            | <del> </del> | $\vdash$ | $\vdash$ | H        |
|          | 34   |          | -        | 1  | Н        | $\vdash$     | ┢            | $\vdash$ | $\vdash$ | Н        |
|          | 35   | П        | Г        | <del>                                     </del> | Т        |              |              |          | $I^-$    | H        |
|          | 36   |          |          | T  | H        | t            | Ι            | $\vdash$ | $\vdash$ | Н        |
|          | 37   |          |          | T  | l        | T            | $\vdash$     | $\vdash$ |          | Н        |
|          | 38   |          |          |  |          |              |              |          | _        |          |
|          | 39   | Г        |          | Г  |          | Γ            |              |          |          | П        |
|          | 40   | П        | Г        |  |          | $\Box$       |              |          |          | М        |
|          | 41   |          |          |  |          |              |              |          |          | П        |
|          | 42   |          |          |  |          |              |              |          |          |          |
|          | 43   |          |          |  |          |              |              |          |          |          |
|          | 44   |          |          |  |          |              |              |          |          |          |
|          | 45   |          |          |  |          |              |              |          |          |          |
|          | 46   |          |          |  |          |              |              |          |          |          |
|          | 47   |          |          |  |          |              |              |          |          |          |
|          | 48   |          |          |  |          |              |              |          |          |          |
|          | 49   |          |          |  |          |              |              |          |          |          |
|          | 50   |          |          |  |          |              |              |          |          |          |

|           | 4111     |          | _        |          |          |          | <u> </u> |          |          |          | Į   | -     | 4111     | Ь        |          |   |          | <i>-</i> |          |          |                 |               |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----|-------|----------|----------|----------|---|----------|----------|----------|----------|-----------------|---------------|
| L III     | Original | 8/19/03  |          |          |          |          |          |          |          |          |     | Final | Original |          |          |   |          |          |          |          |                 |               |
|           | 1        | ٧        |          |          |          | Г        |          | _        | П        |          |     |       | 51       |          |          | - |          |          |          |          | П               |               |
|           | 2        | ٧        |          |          |          |          |          |          |          |          |     |       | 52       |          |          |   |          |          |          |          |                 |               |
|           | 3        | ٧        |          |          |          |          |          |          |          |          |     |       | 53       |          |          |   |          |          |          |          |                 |               |
|           | 4        | ٧        |          |          |          |          |          |          |          |          |     |       | 54       |          |          |   |          |          |          |          |                 |               |
| _         | 5        | ٧        |          |          |          |          |          |          | L_       |          |     |       | 55       | <u> </u> | Ш        |   |          |          | L        |          |                 |               |
|           | 6<br>7   | ٧        |          | L        | L_       |          |          |          | L        |          | Į I |       | 56       | 匚        | Ш        |   |          | <u> </u> |          |          | Ш               |               |
|           | 7        |          |          |          |          | L        |          |          | Ŀ        |          | [   |       | 57       | <u> </u> |          |   |          |          |          |          | Ш               |               |
|           | 8        |          |          |          |          | <u> </u> | L        |          | <u> </u> |          |     |       | 58       |          |          |   |          |          |          |          | Ш               |               |
| _         | 9<br>10  |          |          |          |          | _        | L        | _        | L        | <u> </u> |     |       | 59       | ldash    | _        |   |          |          |          |          |                 |               |
| _         | 10       |          |          | <u> </u> | ļ        | _        | _        | <u> </u> | <u> </u> | <u> </u> |     |       | 60       |          |          |   |          |          |          |          |                 |               |
|           | 11       |          |          | _        | ⊢        | <u> </u> | <u> </u> | <u> </u> | _        | <u> </u> |     |       | 61       | Н        | $\vdash$ |   |          |          |          | _        | $\vdash$        | $\vdash$      |
| _         | 12       |          | _        |          | -        |          | -        | _        |          |          |     |       | 62       | -        |          |   | $\vdash$ |          |          |          |                 |               |
| _         | 13       |          |          |          | _        | _        | $\vdash$ | <u> </u> |          | _        |     |       | 63       | Н        | -        | _ | _        |          |          |          | $\vdash$        | $\vdash$      |
| _         | 14<br>15 |          |          | -        | -        | ┝        |          | H        |          | -        |     |       | 64       | $\vdash$ | -        | _ |          |          |          |          | $\vdash\vdash$  | $\vdash$      |
| $\dashv$  | 16       | -        |          | _        | -        | $\vdash$ | $\vdash$ | $\vdash$ |          | $\vdash$ |     |       | 65<br>66 | $\vdash$ | -        |   |          |          |          |          | $\vdash$        | $\vdash$      |
| -         | 17       |          |          |          |          | -        | $\vdash$ | ⊨        |          | -        |     |       | 67       | $\vdash$ | $\vdash$ | _ | -        |          |          |          | $\vdash$        | $\vdash$      |
| _         | 17<br>18 |          | -        |          | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | -        |          |     |       | 68       |          |          |   |          |          |          |          | -               |               |
| _         | 19       |          |          |          |          | $\vdash$ | $\vdash$ | $\vdash$ | _        | $\vdash$ |     |       | 69       | H        | Н        |   |          |          |          |          |                 | -             |
| $\dashv$  | 20       |          |          |          | $\vdash$ | $\vdash$ | $\vdash$ | _        |          |          |     |       | 70       |          |          |   | -        |          |          |          | $\vdash$        |               |
|           | 21       |          |          |          |          |          |          | -        |          |          |     |       | 70<br>71 |          | $\neg$   |   |          | _        | -        |          | $\vdash$        | $\vdash$      |
|           | 22       |          |          |          |          |          | H        |          | -        |          |     |       | 72       |          |          |   |          |          |          |          |                 |               |
|           | 23       |          |          |          | _        |          |          |          |          |          |     |       | 73       | Н        |          |   |          |          |          | -        |                 | $\overline{}$ |
|           | 24       |          |          |          |          |          |          |          |          |          | 1   |       | 74       |          |          |   |          |          |          |          | П               |               |
|           | 24<br>25 |          |          |          |          | $\vdash$ |          |          |          | $\vdash$ |     |       | 75       |          |          |   |          |          |          |          |                 |               |
|           | 26       |          |          |          |          |          |          |          |          | Г        |     |       | 76<br>77 | П        |          |   |          |          |          |          |                 |               |
|           | 26<br>27 |          |          |          |          |          |          |          |          |          |     |       | 77       |          |          |   |          |          |          |          |                 |               |
|           | 28       |          |          |          |          |          |          |          |          |          | ]   |       | 78       |          |          |   |          |          |          |          |                 |               |
| _         | 29       |          |          |          |          |          |          |          |          |          |     |       | 79       |          |          |   |          |          |          |          |                 |               |
| _         | 30       |          |          |          | L        |          |          |          |          | L        |     |       | 80       |          | Ш        |   |          |          |          |          |                 | L             |
|           | 31       |          |          |          | L        |          |          |          | L        |          |     |       | 81<br>82 |          |          |   |          |          |          |          |                 |               |
| _         | 32       |          |          |          | _        |          | L_       |          |          | _        |     |       | 82       |          |          |   |          |          |          |          |                 |               |
| 4         | 33       |          |          |          |          |          |          |          |          | <u> </u> |     |       | 83       |          |          |   |          |          |          |          |                 |               |
| _         | 34       |          |          |          |          | _        |          |          | _        |          |     |       | 84       | Ш        |          |   |          |          |          |          |                 |               |
| 4         | 35       | _        |          |          |          |          |          | _        | _        |          |     |       | 85       | _        |          | _ |          |          |          |          | $\vdash \vdash$ | <u> </u>      |
|           | 36       |          |          |          | -        | _        | $\vdash$ |          |          | _        |     |       | 86       | $\vdash$ | $\dashv$ |   |          |          |          |          | $\vdash$        |               |
| $\dashv$  | 37       | -        |          | _        | _        | _        | _        |          |          |          |     |       | 87       |          | -        |   |          | _        |          |          | $\vdash$        | <u> </u>      |
| $\dashv$  | 38<br>39 |          |          | _        | $\vdash$ | _        |          | _        | $\vdash$ |          |     |       | 88       | -        |          |   |          |          |          |          | $\vdash$        |               |
| -         | 40       |          | _        |          |          | _        |          |          | _        |          |     |       | 89<br>90 |          | $\dashv$ | - |          | -        |          |          | $\vdash$        | H             |
|           | 41       | -        |          | _        | _        |          | -        |          |          |          |     |       | 91       |          | $\dashv$ | - |          | -        |          |          | $\vdash$        |               |
| -         | 42       | _        |          |          |          |          |          |          | _        |          |     |       | 92       | $\vdash$ | -        |   |          |          |          | -        | $\dashv$        | $\vdash$      |
| $\dashv$  | 43       | $\dashv$ |          |          |          |          |          |          |          |          |     |       | 93       |          |          |   |          | _        |          |          |                 |               |
|           | 44       | $\dashv$ | $\dashv$ |          |          |          |          | _        |          | $\vdash$ |     |       | 94       | $\vdash$ | $\dashv$ | _ |          | =        | $\dashv$ | $\dashv$ | $\vdash$        |               |
|           | 45       | $\Box$   |          |          |          | _        |          |          |          |          |     |       | 95       |          |          |   |          |          |          |          | $\sqcap$        | $\Box$        |
| $\exists$ | 46       |          |          | _        |          |          |          |          |          |          |     |       | 96       |          |          |   |          |          |          |          | $\Box$          | $\Box$        |
|           | 47       |          |          |          |          |          |          |          |          |          |     |       | 97       |          |          |   |          |          |          |          | 一               |               |
|           | 48       |          |          |          |          |          |          |          |          |          |     |       | 98       |          |          |   |          |          |          |          | $\neg$          |               |
|           | 49       | 1        |          |          |          |          |          |          |          |          |     |       | 99       |          |          |   |          |          |          |          | $\Box$          |               |
|           | 50       |          |          |          |          |          |          |          |          |          |     |       | 100      |          |          |   |          |          |          |          |                 |               |
|           |          |          |          |          |          |          |          |          |          |          |     |       |          |          |          |   |          |          |          |          |                 |               |

| Cl    | aim               | Date     |              |          |          |          |          |          |          |                 |  |
|-------|-------------------|----------|--------------|----------|----------|----------|----------|----------|----------|-----------------|--|
|       |                   |          |              |          |          |          |          |          |          |                 |  |
| Final | Original          |          |              |          |          |          |          |          |          |                 |  |
|       | 101               |          |              |          |          |          |          |          | <b>—</b> | П               |  |
|       | 102               |          |              |          |          |          |          |          |          | П               |  |
|       | 103               |          |              |          |          |          |          |          |          |                 |  |
|       | 104               |          |              |          |          |          | L        | L        | L        | Ш               |  |
|       | 105               | _        |              |          | _        |          | L_       |          |          | Ш               |  |
|       | 106               |          |              |          |          |          |          | _        | <u> </u> | Щ               |  |
|       | 107               |          | _            |          |          | _        |          | <u> </u> | _        | Щ               |  |
|       | 108               |          |              |          | _        | <u> </u> | _        | <u> </u> | _        | Щ               |  |
|       | 109               |          | -            | <u> </u> | _        | L        | _        | <u> </u> | <u> </u> | Н               |  |
|       | 110               | _        | _            | -        | _        |          | -        |          | ļ        | Н               |  |
|       | 111<br>112        | <u> </u> | $\vdash$     | $\vdash$ | _        | -        | <u> </u> | $\vdash$ | ⊢        | $\vdash \vdash$ |  |
|       | 113               | $\vdash$ | <u> </u>     | $\vdash$ | _        | $\vdash$ | -        | -        | -        | Н               |  |
|       | 114               | -        | $\vdash$     | Н        |          | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | H               |  |
|       | 115               | -        | <del> </del> |          | _        | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | Н               |  |
|       | 116               | -        |              | $\vdash$ | -        | $\vdash$ | $\vdash$ | H        | H        | Н               |  |
|       | 117               | $\vdash$ |              |          | $\vdash$ | H        | $\vdash$ | $\vdash$ | <u> </u> | Н               |  |
|       | 118               |          |              |          |          |          | $\vdash$ | _        | -        | $\vdash$        |  |
|       | 118<br>119        |          |              |          |          | H        | ┢        | $\vdash$ | $\vdash$ | Н               |  |
|       | 120               |          |              |          | -        | Г        |          | _        |          | Н               |  |
|       | 121               |          |              |          |          |          |          |          |          | П               |  |
|       | 122               |          |              |          |          |          |          |          |          | П               |  |
|       | 123               |          |              |          |          |          |          |          |          | П               |  |
|       | 122<br>123<br>124 |          |              |          |          |          |          |          |          |                 |  |
|       | 125<br>126        |          |              |          |          |          |          |          |          |                 |  |
|       | 126               |          |              |          |          |          |          |          |          |                 |  |
|       | 127               |          |              |          |          |          |          |          |          |                 |  |
|       | 128<br>129        |          |              |          |          |          |          | L        | L        | Ш               |  |
|       | 129               |          |              |          |          | L        |          | L        | L        | Ш               |  |
|       | 130               |          |              |          |          | _        |          | _        |          | Ш               |  |
|       | 131               |          |              |          |          |          |          | ļ        |          | Ш               |  |
|       | 132               |          |              |          |          | <u> </u> | <u> </u> |          | _        | Н               |  |
|       | 133               | H        | <u> </u>     | Н        | <u> </u> |          | -        | <u> </u> | <u> </u> | Н               |  |
| _     | 134<br>135        | $\vdash$ | -            | <u> </u> | <u> </u> | -        | $\vdash$ | $\vdash$ | $\vdash$ | Н               |  |
|       | 135               | H        |              | -        | _        | $\vdash$ | <b>-</b> | <u> </u> | <u> </u> | Н               |  |
|       | 136<br>137        |          | H            | -        | _        | -        | -        | $\vdash$ | $\vdash$ | $\vdash\vdash$  |  |
|       | 138               | -        | $\vdash$     | $\vdash$ | -        | -        | H        | H        | -        | H               |  |
|       | 139               | -        | $\vdash$     | $\vdash$ | -        | $\vdash$ | $\vdash$ | $\vdash$ | Н        | Н               |  |
|       | 140               | Ι        | $\vdash$     |          | -        |          | Н        | -        | -        | H               |  |
|       | 141               |          |              | Н        |          |          |          | Н        | _        | Н               |  |
|       | 142               |          |              | H        |          | $\vdash$ |          |          | Н        | Н               |  |
|       | 143               |          |              | П        |          | $\vdash$ |          | _        | П        | Н               |  |
|       | 144               |          |              |          |          |          |          |          |          | Н               |  |
|       | 145               |          |              |          |          |          |          |          | $\Box$   | П               |  |
|       | 146               |          |              |          |          |          |          |          |          |                 |  |
|       | 147               |          |              |          |          |          |          |          |          |                 |  |
|       | 148               |          |              |          |          |          |          |          |          |                 |  |
|       | 149               |          |              |          |          |          |          |          |          |                 |  |
|       | 150               |          |              |          |          |          |          |          |          |                 |  |